

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632286

Luminaire Tested: GWS-SA2C-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8003.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

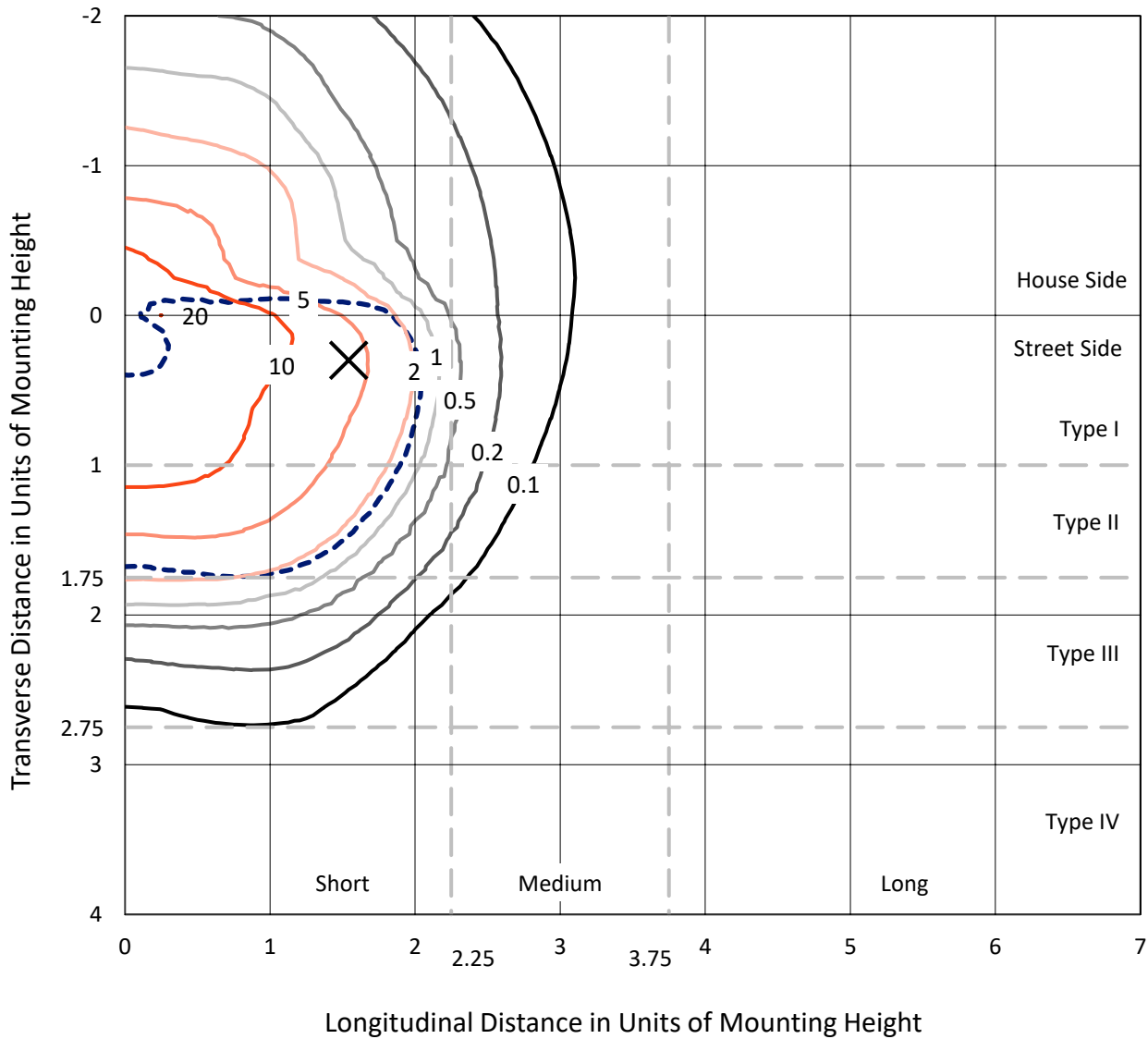
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632286
 CATALOG NUMBER: GWS-SA2C-735-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

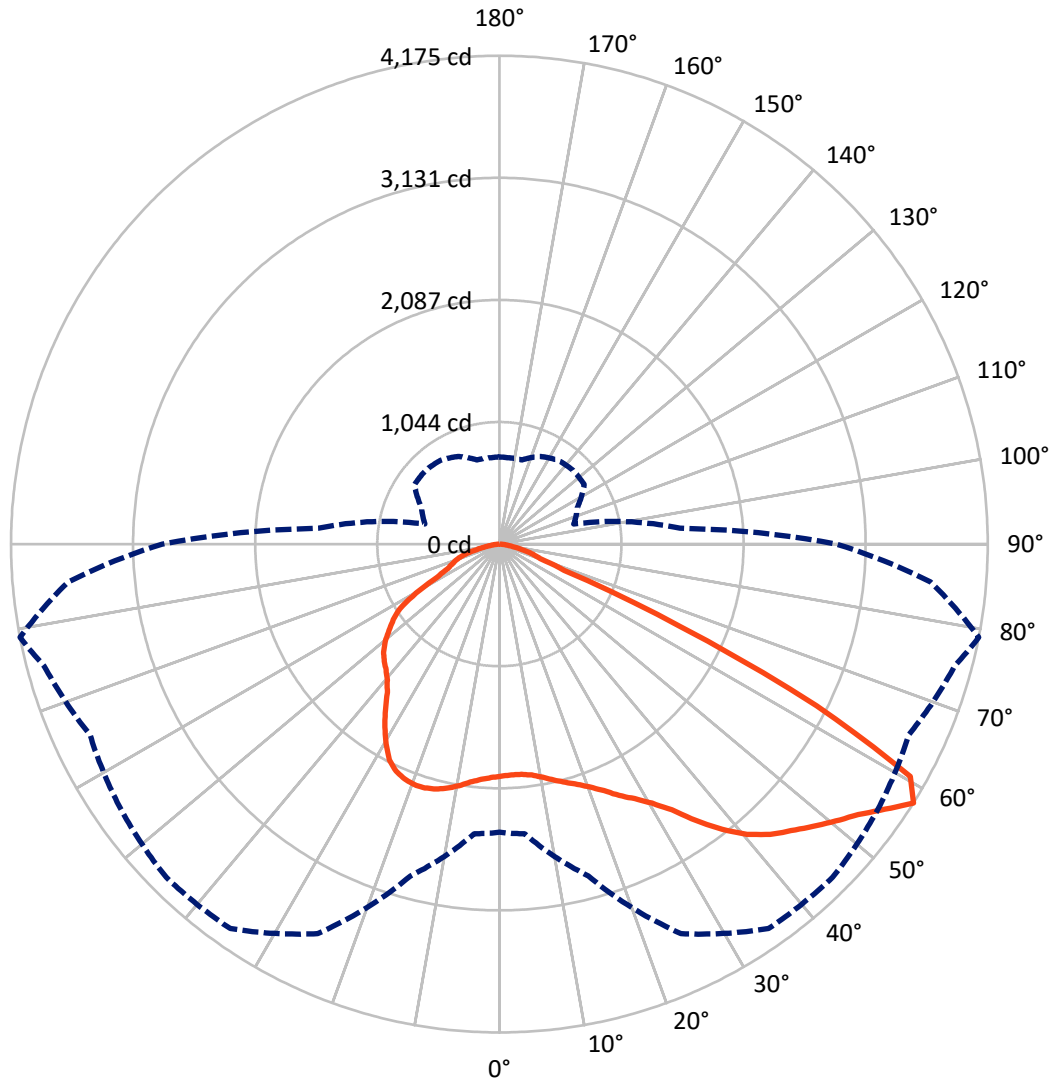
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

REPORT NUMBER: P632286
CATALOG NUMBER: GWS-SA2C-735-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P632286

CATALOG NUMBER: GWS-SA2C-735-U-T3R-W-GRSWH

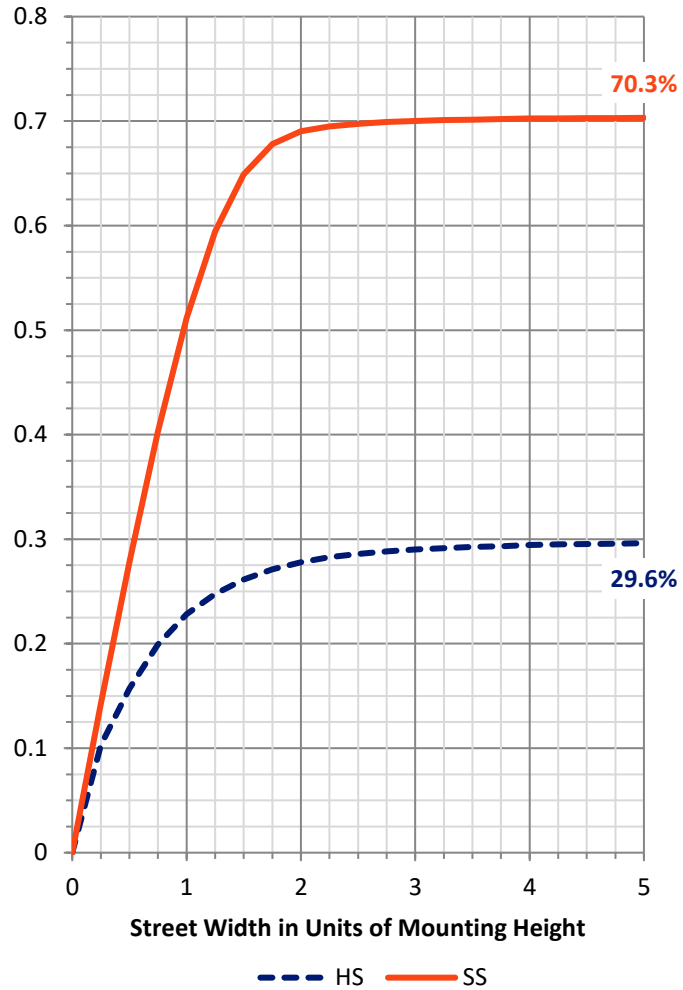
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2379.0	0.0	2379.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5624.2	0.0	5624.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	8003.2	0.0	8003.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	2.3
10°-20°	510.4	6.4
20°-30°	865.2	10.8
30°-40°	1324.3	16.5
40°-50°	1765.9	22.1
50°-60°	2039.4	25.5
60°-70°	1059.8	13.2
70°-80°	225.3	2.8
80°-90°	29.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8003.2	100.0
0°-180°	8003.2	100.0

Coefficient of Utilization



REPORT NUMBER: P632286

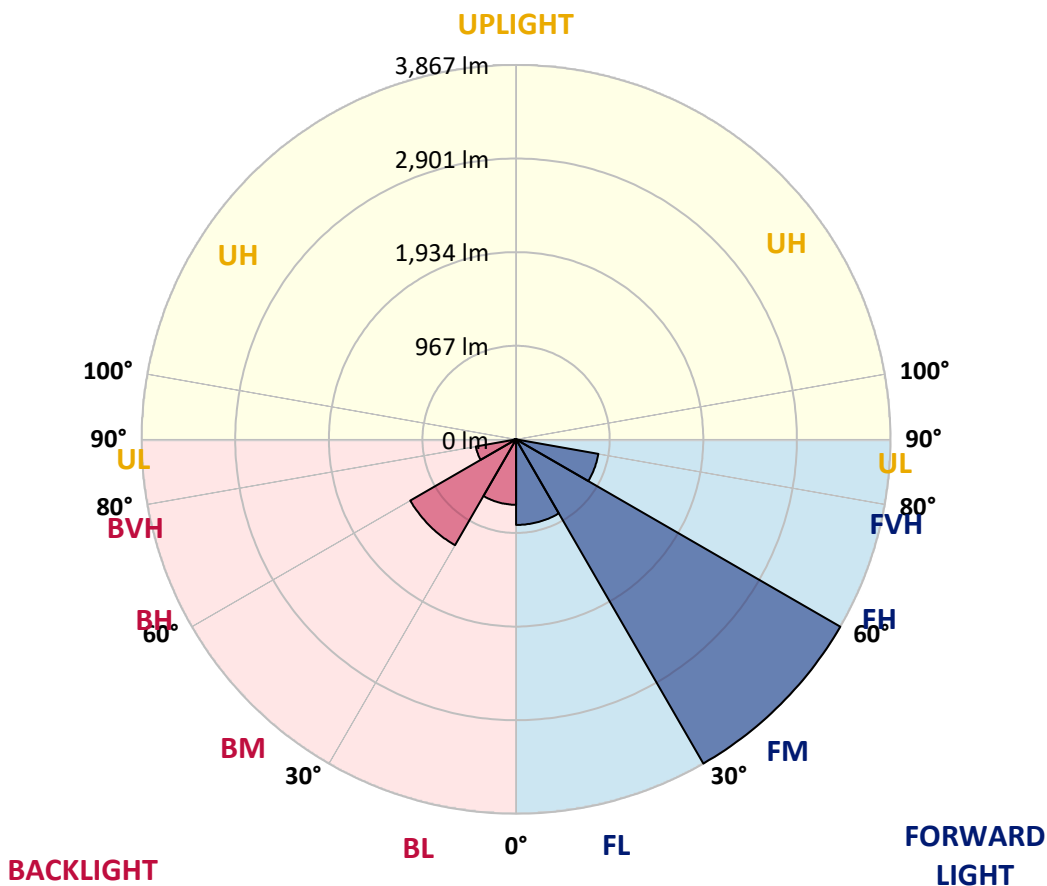
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.7	11.0			
FM (30°-60°)	3867.4	48.3			
FH (60°-80°)	862.9	10.8			G1/1800
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	675.6	8.4	B2/1000		
BM (30°-60°)	1262.3	15.8	B2/2500		
BH (60°-80°)	422.1	5.3	B1/500		G1/500
BVH (80°-90°)	19.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P632286

CATALOG NUMBER: GWS-SA2C-735-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1893.1	1889.1	1890.5	1895.7	1915.3	1929.7	1944.8	1958.5	1971.6	1975.5	1978.8
5°	1825.7	1818.5	1820.4	1828.9	1851.9	1876.1	1902.9	1935.6	1967.0	1977.5	1991.2
7.5°	1777.9	1776.6	1779.9	1793.0	1817.2	1840.1	1874.8	1921.2	1975.5	1993.2	2017.4
10°	1714.4	1711.8	1724.9	1751.7	1791.6	1828.3	1869.5	1924.5	2000.4	2026.6	2063.9
12.5°	1664.0	1662.7	1676.5	1713.8	1764.8	1823.1	1880.0	1941.5	2033.8	2069.8	2115.6
15°	1693.5	1687.6	1688.3	1714.4	1760.2	1828.9	1906.2	1972.3	2067.1	2112.9	2171.8
17.5°	1779.2	1768.7	1760.9	1765.5	1791.6	1863.0	1946.1	2013.5	2105.7	2159.4	2231.4
20°	1897.7	1891.8	1870.2	1855.8	1861.7	1924.5	2008.9	2071.7	2156.1	2216.3	2293.5
22.5°	2056.7	2042.3	2012.8	1989.9	1972.3	2021.3	2099.2	2153.5	2226.1	2289.0	2369.5
25°	2253.6	2232.7	2186.2	2150.2	2112.3	2162.7	2232.0	2273.3	2322.3	2380.6	2457.1
27.5°	2454.5	2436.9	2385.2	2336.7	2289.6	2321.0	2403.5	2427.0	2421.8	2464.3	2529.8
30°	2668.5	2646.2	2597.2	2544.8	2484.0	2504.3	2578.2	2590.0	2534.4	2569.7	2614.2
32.5°	2894.3	2872.7	2830.1	2769.3	2700.6	2708.4	2728.7	2739.8	2686.8	2707.1	2741.1
35°	3123.9	3103.6	3060.5	3000.3	2949.9	2902.1	2851.1	2895.6	2864.8	2904.1	2901.5
37.5°	3334.0	3313.7	3286.9	3240.4	3154.0	3059.8	2942.0	2997.0	3044.8	3094.5	3086.0
40°	3476.0	3462.2	3468.8	3461.6	3350.3	3163.9	2986.5	3046.7	3176.9	3262.0	3257.4
42.5°	3598.3	3584.6	3622.6	3650.0	3519.2	3260.0	3008.1	3065.7	3261.4	3394.2	3387.6
45°	3652.7	3648.7	3711.6	3798.6	3673.6	3362.1	3063.7	3105.0	3325.5	3495.6	3470.7
47.5°	3587.9	3601.6	3725.3	3872.5	3801.9	3483.2	3177.6	3188.1	3409.2	3605.5	3535.5
50°	3459.0	3489.1	3655.9	3874.5	3895.4	3619.9	3335.3	3309.1	3521.8	3722.7	3569.6
52.5°	3271.2	3302.6	3574.8	3859.4	3949.1	3778.3	3545.3	3508.0	3663.8	3839.8	3575.4
55°	2839.9	2882.5	3389.0	3825.4	4001.4	3922.3	3782.2	3706.3	3847.0	4000.8	3633.7
57.5°	2463.7	2485.9	2936.1	3674.3	4011.9	4028.3	3951.1	3860.7	4028.9	4174.8	3699.1
60°	1808.0	1813.2	2218.3	3040.2	3690.6	3966.8	3937.3	3803.2	3942.5	4035.5	3399.4
62.5°	1021.5	1022.1	1345.4	2029.2	2756.8	3233.2	3251.5	3133.1	3016.0	3043.4	2366.2
65°	383.5	419.4	614.4	997.3	1589.5	1908.8	1984.7	2012.2	1817.2	1696.1	1268.8
67.5°	256.5	265.0	358.6	513.0	707.4	816.6	913.5	916.1	670.1	597.4	499.9
70°	195.7	204.2	282.0	367.1	358.6	331.1	357.9	348.1	359.9	369.7	380.2
72.5°	145.9	154.4	218.6	259.1	215.3	212.0	240.2	267.0	291.8	302.3	318.7
75°	96.8	103.4	147.2	138.7	119.1	140.7	175.4	202.2	216.6	229.0	241.5
77.5°	61.5	66.1	78.5	63.5	66.1	82.4	102.1	126.3	140.0	152.5	159.0
80°	28.1	27.5	26.8	30.1	37.3	48.4	61.5	75.9	86.4	91.6	95.5
82.5°	11.1	12.4	13.7	16.4	20.3	26.2	34.7	44.5	53.0	54.3	57.6
85°	4.6	5.2	5.9	7.2	9.2	11.8	14.4	20.3	25.5	27.5	29.4
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.0	3.3	5.9	6.5	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632286

CATALOG NUMBER: GWS-SA2C-735-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1996.5	1988.0	2002.4	2012.2	2021.3	2011.5	2008.2	1999.7	1998.4	1998.4	2003.0
5°	2014.8	2008.9	2023.9	2029.8	2029.2	2007.6	1994.5	1977.5	1969.0	1969.0	1970.3
7.5°	2047.5	2044.2	2052.7	2043.6	2022.6	1978.8	1935.6	1899.6	1875.4	1863.0	1866.9
10°	2101.8	2097.9	2090.7	2056.7	1996.5	1905.5	1817.2	1751.7	1712.5	1690.2	1691.5
12.5°	2154.8	2148.3	2122.8	2047.5	1923.8	1779.2	1663.4	1590.1	1546.9	1520.7	1514.9
15°	2213.1	2196.0	2141.1	2000.4	1805.4	1624.8	1503.7	1424.6	1378.1	1362.4	1361.7
17.5°	2268.7	2238.6	2139.1	1916.6	1663.4	1463.2	1341.4	1292.4	1284.5	1291.7	1293.7
20°	2325.0	2276.5	2117.5	1800.8	1494.6	1302.2	1239.4	1259.7	1289.1	1308.7	1313.3
22.5°	2383.2	2307.9	2068.4	1651.6	1316.6	1193.6	1219.7	1264.2	1300.9	1327.1	1329.7
25°	2448.6	2337.4	1995.2	1469.0	1173.9	1163.5	1215.2	1262.3	1301.5	1331.6	1336.9
27.5°	2485.9	2338.0	1892.4	1281.2	1108.5	1151.7	1204.0	1248.5	1287.8	1320.5	1326.4
30°	2522.6	2320.4	1729.5	1128.8	1089.5	1137.9	1185.1	1226.3	1263.6	1295.6	1302.8
32.5°	2574.3	2304.0	1541.7	1041.1	1078.4	1124.9	1163.5	1200.1	1228.9	1243.3	1247.2
35°	2638.4	2283.1	1342.1	1003.1	1071.2	1114.4	1148.4	1168.0	1130.7	1122.9	1131.4
37.5°	2728.0	2263.4	1143.2	986.8	1066.6	1110.5	1140.6	1090.2	1044.4	1026.0	1032.6
40°	2824.9	2252.3	1008.4	973.7	1068.6	1114.4	1107.8	1033.2	967.2	928.5	927.2
42.5°	2907.3	2235.3	922.0	965.2	1073.8	1129.4	1063.3	982.9	884.7	861.8	862.5
45°	2963.0	2192.1	876.2	956.0	1078.4	1132.7	1042.4	913.5	843.5	829.1	828.4
47.5°	2985.9	2113.6	846.7	941.6	1077.7	1105.9	999.9	884.7	814.7	810.8	813.4
50°	2970.8	1984.7	816.6	913.5	1062.0	1077.7	950.8	859.2	795.1	816.6	832.4
52.5°	2915.2	1817.8	780.7	874.9	1033.9	1045.7	925.9	843.5	780.7	809.4	821.9
55°	2900.8	1682.4	734.9	824.5	992.0	988.7	899.8	835.6	770.8	759.7	761.7
57.5°	2881.8	1550.2	658.9	734.2	886.0	891.2	874.9	826.5	745.3	742.0	745.3
60°	2503.6	1188.3	587.6	633.4	727.7	755.8	846.7	809.4	704.1	690.4	689.7
62.5°	1635.3	719.8	522.8	552.3	592.9	625.6	772.1	760.4	658.9	650.4	656.3
65°	879.5	513.0	475.7	493.4	515.6	540.5	640.0	677.3	595.5	565.4	566.0
67.5°	449.5	436.5	440.4	452.8	469.8	482.3	516.3	549.0	507.8	482.3	481.6
70°	384.8	395.2	401.1	408.3	419.4	417.5	420.8	426.6	423.4	410.9	410.3
72.5°	327.8	344.2	345.5	346.8	350.7	341.6	335.7	325.9	326.5	328.5	329.1
75°	249.3	265.0	268.9	267.0	270.9	259.1	251.3	241.5	229.7	227.7	229.0
77.5°	162.3	174.7	180.6	179.3	181.3	172.1	168.2	157.7	144.0	138.7	138.7
80°	98.2	105.4	109.9	111.2	113.2	106.7	100.1	91.0	85.1	79.2	79.2
82.5°	59.5	64.1	67.4	67.4	69.4	62.2	56.9	50.4	47.8	42.5	42.5
85°	30.1	33.4	34.7	34.0	32.7	26.8	24.9	21.6	20.3	17.7	17.7
87.5°	7.2	9.2	9.2	6.5	6.5	3.3	2.0	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)